

Fig. 1A

Human_p53 MEEPQSDPSVEPLSQEYFSDWKLPENNV-----LSP--LPSQAMD
Xen_p53 ME-PSSETGMDPLSQEYFSDWKLPENNV-----LSP--LPSQAMD
Squid_p53 MSQGT-----PNSQEFNLWDSQVANEYTOIHERGVGYEHEAPDQTSIEISA
CPB_p53 MS-SQSD-----FLPPDVONFLAEQEGD-----NVDNLN
Trib_p53A MS-QQS-----QPSIIPDVDFKTEHD-----GKDDV
Trib_p53B -----
Hello_p53 -----
Dr_s_p53 MYISQP-----MSWHKEETDSEDDSTVDIK-----EDPKTV
c ns nsus m qs et l le
Human_p53 DMLSEDDI---EQWFTEDPGPDEAPRMEAPRV-----APAPAAPAPAPAPASW
Xen_p53 CRDNL-----EPDYPLANDMT-----VLQEGLMGNAVPTVT--
Squid_p53 YRLAQDPYGRSESYDLLNPIINQIPAPMPIADTONNPLVNHCPYEDMPVSTPYSPHDH
CPB_p53 FFKDEPT-----LNDLNSINLNG-----SIVANDDKMVHLFPFG-
Trib_p53A GRGMHEN-----NVHLVNDGGE-----EEKYSNEANYTESHFPF-
Trib_p53B RQYKPED-----FSHTFHPICISIFQLEDKFNINQSXYLSAPFPF-
eli_p53 -----
Dros_p53 EVSGSELT-----TEMAFLQGLNSGN-----LMQFSQSVLREMILQDI
c nsensus m p a t v p
Human_p53 PL--SSVPSQKTYQSGYGERGFLH-SGTAKSVCTYSPALNKMCCQAKTKCPVLWVD
Xeno_p53 ---SCAPSTDYAGKYGLQDFDQ-NGTAKSVCTYSPALNKMCCQAKTKCPVLVRVE
Squid_p53 VQSPQSPVPSNIXKYGVEVEMQPCQPSKETKSTMTYSEKLDKVRMTTCPCVRKTA
CPB_p53 ---VQTSVPSNDYDGPYEFEDVHP--TVAKNSWVSTTLNKVMTMGSPFPVDFRVS
Trib_p53A ---DQANLGTETPGPNEFSVISP--NEQKSPMEYSEKLNKIGINVKFPVAFSVQ
Trib_p53B ---SEPLELCNTEYPCPLNEFVDP--NVLKNPMEYSPILNKIYDMKKHFPNFSVK
Hello_p53 -----HEMKCNFSVQFNWD
Dr_s_p53 QIQANTLPKLENHNIGGYCESMVEDE---PPKSLMYSIPLNKIVRMNKAENVDVQFK
c nsensus q svpsq dy g y f l v k tw ys lnkmyv ma fpv f v
Human_p53 STPP-PGTRVRAMAKQSQHTEVVRCPHERCSD-----SDGLAPPQHRIIRVEGNLR
Xeno_p53 SPPP-RGSIIRATAVKKSEHVAEVRCPHERSVPP-----GDAAPPSHIRVEGNLQ
Squid_p53 RPPP-SGQIRAMPETAMKPEHVOEVRCPHERHATAKEH-----NEKHAPLHIRCEHKL-
CPB_p53 HRPF-NPFRSTPVSAPQFAQECVRCINHEFSHKEG-DGDLKEHIRPHIIRCANQYA
Trib_p53A NREONLPKIRATPVSTQHFQDVRHCYGRHHPDQS-NKGVAPHFQHIIRCTNDIA
Trib_p53B KADEERRLVVRMPMEEDRYVOELVRHCYGRHHPDQS-NKGVAPHFQHIIRCTNDIA
Hello_p53 YQKA-PHMMVRSTVVSDETQAEKVRVCYGRHHPDQS-NKGVAPHFQHIIRCTNDIA
Dros_p53 SKMEIQPNERVFLCESND--VSAPVRCQNLHLSVEPLT--ANNAKMRESERSENPS
c nsensus pp lfvratpvs hvqev RCLnHe d s d i hiircennna
Human_p53 MEVLDRNT---FHSVVVVEP-----FEVGSQCTIHYNMCNSCMG-GMNRRLPILTI
Xen_p53 AKTMEDVNS---GRHSVCVVEG-----POVGECTIHYNMCNSCMG-GMNRRLPILTI
Squid_p53 AKHEDKYS---GROSVVVEPHEM-----POAGSEWVNLVQFCLGSCMG-GPNRRPIQTM
CPB_p53 AVLGDKSKN---ERLSVVPFGI-----POTGESVREIEFVCKNSCSPGMNRRPILTI
Trib_p53A EYVGDKNKG---KRLS-----POVGEVVKVEFQFCKNSCPL-GMNRRLPILTI
Trib_p53B QVGGDNAG---KRLS-----
H l l _p53 VVTCGVDM---ADSWYVLVEF-----MRTSESCHAYQFCKNSCAT-GENRRALATI
Dros_p53 VVTCGNAQGGISEFESVWMLNMSRVSRTGLTRQGLAKENCONSCIG---REETSIV
c nsensus vvygdk r svvp e pq gse t ynfmc nscmg gmnrrpi li

Fig. 1B

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Human_p53  I T T E D S S G N G G S P E V V C C C G R D R R T E E N L R K K G --- E P H H E L P P G S T K R A L P
Xeno_p53   I T L E T P Q G L G R C F E V V C C C G R D R T E E D N Y T K K --- R G L K P S G --- K R E L A
Squid_p53  F T L E K - D N Q V G R A M E V C C C G R D R K A D E A S L V S K --- P P S P K K G F P Q R S L V
CPB_p53    F T L E D N Q G T Y G R K T N V A C S C P K R D E K D E D N T A N T --- N L P H G - K R K K E
Trib_p53A  F T L E D N K G E T G R I - G V A M C S C P K R D K V E K - D M E S A --- V P P R R K K R K G
Trib_p53B  F T L E D A M G N H G R Q V M G A R ---
Helio_p53  E C L E K A C S D A V S Q H V E V T C T C K R D I Q D E R Q L N S K K R K S V P E A A E E D P S K V R C H A
Dros_p53   f t l d g l i g r v v i v c c p r d r e e k k
consensus f t l d g l i g r v v i v c c p r d r e e k k p g k r l

Human_p53  N N T S S P - Q P K K --- K P L D G E Y F T Q C G R E R E E F R E N E A T E L K D A Q A G ---
Xen_p53    H P P S E P P L P A L V V D D D E I F T K G S R E M E I K K I N D A F E L Q S D Q Q ---
Squid_p53  L T N D I T K I T P K K --- R K I D D E C F T A V G R E N E E L C K E R D I M E L A A R P E A E R L L Y K Q E
CPB_p53    K P S K K P M Q T Q A E --- N D T K E F T L P P V G R H N E Q N V L K Y C H D I M A G E I E R N ---
Trib_p53A  N D E R R V V P Q G S S --- D N K I F A L N E H P C K N N L Q A L K C Q D M L A M E K K Q ---
Trib_p53B  ---
Helio_p53  ---
Dros_p53   I K T E D T E S N D S D C D D S A A E W N V S R T P D G D Y R L A T C P N K E W L Q S I E G M I K ---
c nsensus k e t l i g r f m k l e l d l

Human_p53  - K E P G C --- S R A H S H L K K K Q Q --- S T S R H K K M F K T E G P S D ---
Xen_p53    - K V T I K --- C R X C R D E I P K K G --- K A D A Y K D E Q P S E ---
Squid_p53  R Q A P I G R L T S P S S N G S Q D G S R S T A F S T S D S S Q V N S S Q N N T Q M A N G Q V P H E E T P V T
CPB_p53    --- I G --- N G T E G P V I A L N --- K E N T L I N S S E ---
Trib_p53A  --- E Q G --- G D - D S A D N C Y N --- E I T V I N G T A A F D ---
Trib_p53B  ---
Helio_p53  ---
Dros_p53   - E A A E V L R N P N Q E N L E R H A N --- K I S T K K R A Y L P ---
consensus g k l m v d

Human_p53  ---
Xeno_p53   ---
Squid_p53  K C E P T E N T I A Q W L K I G L Q A Y I D N F Q Q K G L H N M F Q L D E F T L E D L Q S M R I G T G H R N K I W K S
CPB_p53    ---
Trib_p53A  ---
Trib_p53B  ---
Helio_p53  ---
Dros_p53   ---
consensus ---

Human_p53  ---
Xeno_p53   ---
Squid_p53  L L D Y R L L S S G T E S Q A L Q H A A S N A S T L S V G S Q N S Y C P G Y E V T R Y T Y K H T I S Y L
CPB_p53    ---
Trib_p53A  ---
Trib_p53B  ---
Helio_p53  ---
Dros_p53   ---
consensus ---

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